

### ABSTRACT

Data objects replicated at multiple computers can be synchronized using synchronization messages exchanged over a network. The synchronization messages include a current operation parameter and a previous operation parameter that are processed to determine how and when the replicated data objects should be manipulated. The current operation parameter identifies an operation and associated data to be executed at a receiving computer to synchronize the receiving computer's data object. An execution stage parameter is also sent to identify a correct execution timing for the operation. The previous operation parameter identifies a preceding operation executed by the sending computer, an execution stage at which the preceding operation was executed, and the computer first originating the preceding operation (e.g., an identify of a third computer that first initiated the operation). Data in the synchronization message can also indicate a unique priority level of the sending computer with respect to the other computers.

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